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CLAIMS

This listing of the claims replaces all prior versions of claims in the application.

1. (Cancelled)
2. (Currently amended) ~~The unit of claim 1, wherein~~ A communication unit in a cellular communication system, the unit comprising:  
a transmitter that transmits data over an RF link; and  
a power control module coupled to the transmitter, the power control module receives a data packet having a first portion and a second portion and transmits the first portion at a first transmission power and the second portion at a second transmission power, wherein at least the second portion comprises data, the communication unit transmits the first portion of the data packet at a first data rate and the second portion of the data packet at a second data rate.
3. (Previously presented) The unit of claim 2, wherein the first transmission power and the second transmission power are selected so that the first portion and the second portion have similar transmission ranges.
4. (Currently amended) The unit of claim ~~[[1]]~~ 2, wherein the data packet includes a third portion and the power adjustment module ~~is adapted to receive~~ receives the data packet having the third portion and ~~transmit~~ transmits the third portion at a third transmission power.
5. (Original) The unit of claim 4, wherein the communication unit transmits the first portion of the data packet at a first data rate, the second portion of the data packet at a second data rate and the third portion of the data packet at a third data rate.

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6. (Original) The unit of claim 5, wherein the data packet conforms to the IEEE 802.11 standard protocol and the first portion of the data packet is a PLCP preamble, the second portion of the data packet is a PLCP header and the third portion of the data packet is a data portion.

7. (Currently amended) The unit of claim ~~[[1]]~~ 2, wherein the communication unit is an access point system.

8. (Currently amended) The unit of claim ~~[[1]]~~ 2, wherein the communication unit is a mobile communication unit.

9. (Currently amended) The unit of claim ~~[[1]]~~ 2, wherein the power control module includes a transmission power amplifier adapted to receive the power data packet and dynamically control the transmission power of the first portion and the second portion.

10. (Currently amended) The unit of claim 9, wherein the power control module includes a D/A converter ~~adapted to receive~~ that receives power data information in digital format and ~~convert~~ converts the power data information to an analog control signal, the analog signal ~~adapted to control~~ controls the transmission power of the transmission power amplifier.

11. (Currently amended) The unit of claim 10, further including a processor coupled to the D/A converter, the processor ~~adapted to transmit~~ transmits the power data information to the D/A converter.

12. (Currently amended) The unit of claim 11, further including a receiver coupled to the processor, the receiver ~~being adapted to receive~~ receives a transmission from other communication units.

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13. (Currently amended) The unit of claim 12, wherein the receiver ~~is further adapted to provide~~ provides transmission power information to the processor from a transmission communication unit transmitting information to the receiver, the processor evaluating a range from the transmission power information and downloading power data information to the power control circuit based on a desired transmission range of the data packet.

14. (Currently amended) The unit of claim 10, wherein the power control module includes a power data register section coupled to the D/A converter, the power data register module ~~being adapted to store~~ stores the power data information and ~~provide~~ provides the power data information to the D/A converter.

15. (Currently amended) The unit of claim 14, further including a processor coupled to the power data register section, the processor ~~adapted to transmit~~ transmits the power data information to the power data register section.

16. (Currently amended) The unit of claim 15, further including a receiver coupled to the processor, the receiver ~~being adapted to receive~~ receives a transmission from other communication units.

17. (Currently amended) The unit of claim 16, wherein the receiver ~~is further adapted to provide~~ provides transmission power information to the processor from a transmission communication unit transmitting information to the receiver, the processor evaluating a range from the transmission power information and downloading power data information to the power control circuit based on a desired transmission range of the data packet.

18. (Currently amended) The unit of claim ~~[[1]]~~ 2, wherein the communication unit is coupled to a network and the network provides the power control circuit with information relating to the power transmission level of the first portion and the second portion.

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19. (Cancelled)

20. (Currently Amended) ~~The method of claim 19, further including~~ A method of transmitting a data packet in a cellular communication system, comprising:

transmitting a first portion of the data packet at a first transmission power level;  
transmitting a second portion of the data packet at a second transmission power level; and

transmitting a third portion of the data packet at a third transmission power level.

21. (Currently amended) The method of claim ~~[[19]]~~ 20, wherein the first portion of the data packet is transmitted at a first data rate and the second portion of the data packet is transmitted at a second data rate.

22. (Currently amended) The method of claim ~~[[19]]~~ 20, wherein the first power level and the second power level are adjusted so that the first portion and the second portion have essentially the same transmission range.

23. (Currently amended) The method of claim ~~[[19]]~~ 20, wherein providing a communication unit precedes transmitting a first portion of the data packet at a first transmission power level, the communication unit including a transmitter, a power control module coupled to the transmitter, a processor coupled to the power control module and a receiver coupled to the processor.

24. (Previously presented) The method of claim 23, wherein the processor provides the power control module with the first transmission power and the second transmission power after providing a communication unit and prior to transmitting a first portion of the data packet at a first transmission power level.

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25. (Original) The method of claim 24, wherein the processor evaluates the first transmission power and the second transmission power based on a desired transmission range for the first portion and the second portion of the data packet.

26. (Original) The method of claim 25, wherein the processor evaluates the first transmission power and the second transmission power based on a desired transmission range for the first portion and the second portion of the data packet based on a transmission power level of a transmission received from another mobile communication unit.

27. (Original) The method of claim 25, wherein the communication unit is coupled to a network and the processor evaluates the first transmission power and the second transmission power based on a desired transmission range for the first portion and the second portion of the data packet, the network providing the processor information relating to the desired transmission range.

28. (Currently amended) The method of claim ~~[[19]]~~ 20, wherein the power level of the first portion and the second portion is dynamically adjusted during the transmission of the data packet.

29. (Currently amended) An access point system in a cellular communication system utilizing an IEEE 802.11 standard protocol, comprising:

a transmitter ~~adapted to transmit~~ that transmits data over an RF link;

a power control module coupled to the transmitter, the power control module ~~adapted to receive~~ receives a data packet having a PLCP preamble and PLCP header portion and a data portion and dynamically ~~adjust~~ adjusts the transmission power of the packet during transmission of the packet, such that the PLCP preamble portion begins transmitting at a first transmission power level and the data portion begins transmitting at a second transmission power level;

a processor coupled to the power adjustment module, the processor ~~being adapted to provide~~ provides power adjustment information to the power control module; and

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a receiver coupled to the processor, the receiver ~~adapted to receive~~ receives data over an RF link wherein the access point system is coupled to a network.

30. (Currently amended) The system of claim 29, wherein the power control module includes a transmission power amplifier ~~adapted to receive~~ that receives the data packet and control the transmission power of the PLCP preamble portion and the data portion, the transmission power amplifier coupled to a D/A converter, the D/A converter ~~being adapted to receive~~ receives power data information in digital format and ~~convert~~ converts the power data information to an analog control signal, the analog control signal ~~adapted to control~~ controls the transmission power of the transmission power amplifier.

31. (Currently Amended) The system of claim 30, wherein the power control module includes a power data register module coupled to the D/A converter, the power data register ~~being adapted to store~~ stores the power data information and ~~provide~~ provides the power data information to the D/A converter wherein the processor is coupled to the D/A converter, the processor ~~adapted to transmit~~ transmits the power data information to the D/A converter.

32. (Currently amended) A cellular communication system, comprising:  
means for transmitting a data packet having a first portion and a second portion;  
and  
means for dynamically adjusting the transmission power level of the first portion with respect to the second portion of the data packet coupled to the means for transmitting a data packet having a first portion and a second portion; ~~wherein at least the second portion comprises data~~ and means for determining the transmission power levels of the first and second portion based on a desired transmission range for both the first and second portion.

33. (Cancelled)

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34. (Original) The system of claim 32, wherein the means for dynamically adjusting the transmission power level of the first portion with respect to the second portion of the data packet further provides for adjusting the power transmission level of a third portion of the data packet with respect to the first and second portions.

35. (Currently Amended) A signal transmitted over a wireless communication system, the signal comprising:

a data packet having a first portion transmitted at a first power level, ~~[[and]]~~ a second portion transmitted at a second power level, and a third portion transmitted at a third power level. ~~at least the second portion comprising data.~~